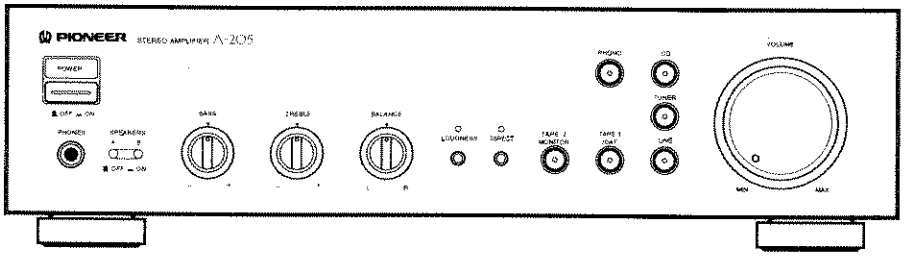
PIONEER
The Art of Entertainment

Operating instructions

A-205
A-105

STEREO AMPLIFIER

English



The illustration shows model A-205.

WARNING : TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

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FEATURES

- **High power output**
  Model A-105 ..... 30 W + 30 W/8 Ω (DIN)
  Model A-205 ..... 55 W + 55 W/4 Ω (DIN)
  45 W + 45 W/8 Ω (DIN)

- **Wide-Range Linear Circuit**
  This new current feedback circuit assures improved operating stability for flat output impedance and stable driving of speakers across the full range of frequencies.

- **The use of a DIRECT circuit ensures high fidelity playback of consistent frequency characteristics, with maximum clarity.**

- **Bi-directional dubbing is possible by using two cassette decks.**

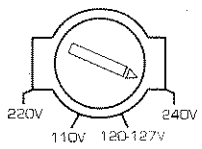
- **Speaker terminals for two speaker systems are provided. (A-205 only)**

LINE VOLTAGE SELECTOR SWITCH

Only multi-voltage model is provided with this switch. Round 2-pin AC plug model is not provided with this switch.
Main voltages in Saudi Arabia are 127 V and 220 V only. Never use this model with 110 V setting in Saudi Arabia.
The line voltage selector switch is on the rear panel. Check that it is set properly before plugging the power cord into the AC wall socket. If the voltage is not properly set or if you move to an area where the voltage requirements differ, adjust the selector switch as follows:

1. Use a medium-size screwdriver.
2. Insert the screwdriver into the groove on the voltage selector, and adjust so that the tip of the arrow points to the voltage value of your area.

VOLTAGE SELECTOR



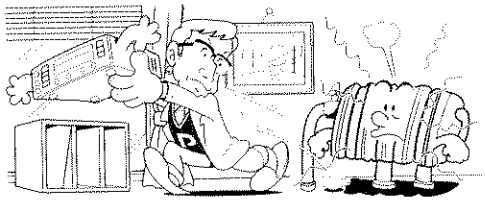
INSTALLATION

LOCATION

Install the unit in a well-ventilated location where it will not be exposed to high temperatures or humidity.

Do not install the unit in a location which is exposed to direct rays of the sun, or near hot appliances or radiators. Excessive heat can adversely affect the cabinet and internal components. Installation of the unit in a damp or dusty environment may result in a malfunction or accident. (Also avoid installation near cookers, etc., where the unit may be exposed to smoke from oil, steam, or heat.)

Do not install the unit on a tottered stand, nor on an unstable or inclined surface.



VENTILATION

- When installing this unit, make sure to leave spacearound the unit for ventilation to improve heat radiation. If not enough space is provided between the unit and walls or other equipment, heat will build up inside, interfering with performance or causing malfunctions.
  If this unit is used in a stack of components, please be sure to install it at the very top of the stack.
- Do not place on a thick carpet, bed, sofa or fabric having a thick pile. Do not cover with fabric or other covering.
  Anything that blocks ventilation will cause internal temperature to rise, which may lead to breakdown or fire hazard.

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

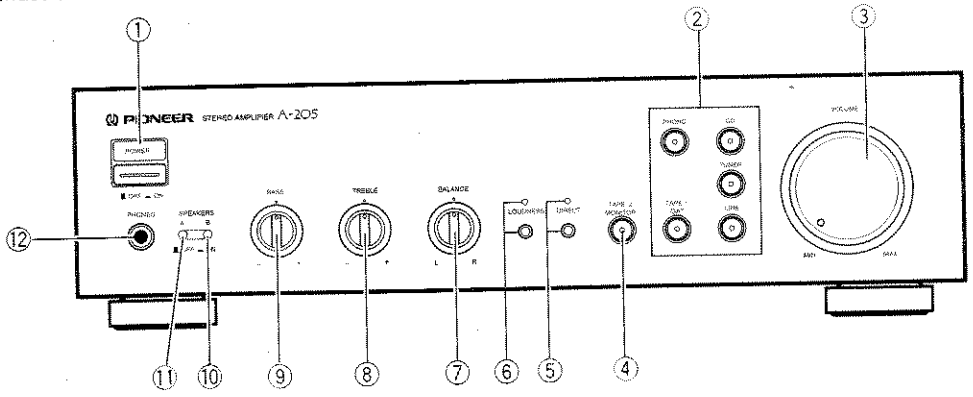
MAINTENANCE OF EXTERNAL SURFACES

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays and other chemicals on or near this unit, since these will corrode the surfaces.

PANEL FACILITIES

1

The illustration shows model A-205.



Model A-105 is not equipped with ⑩ and ⑪.

FRONT PANEL

See Fig. 1

① POWER switch

Press to turn power to the unit ON and OFF.

② Input Selector switch/indicator

Use to select the playback source.

PHONO : For record playback with a turntable.
CD : For compact disc playback with a CD player.
TUNER : For AM or FM broadcast reception with a tuner.
LINE : Set to this position when listening to the program from a component connected to the LINE terminals.
TAPE 1/DAT : For playback with a cassette deck or digital audio tape deck connected to the TAPE 1/DAT terminals.

③ VOLUME control

Use to adjust the volume level.

④ TAPE 2 MONITOR switch/indicator

Use when there is an adaptor component (graphic equalizer, etc.) or cassette deck connected to the TAPE 2 MONITOR terminals.

ON : Indicator lights when using the adaptor component or listening to the cassette deck.
OFF : Indicator goes out when not in use.

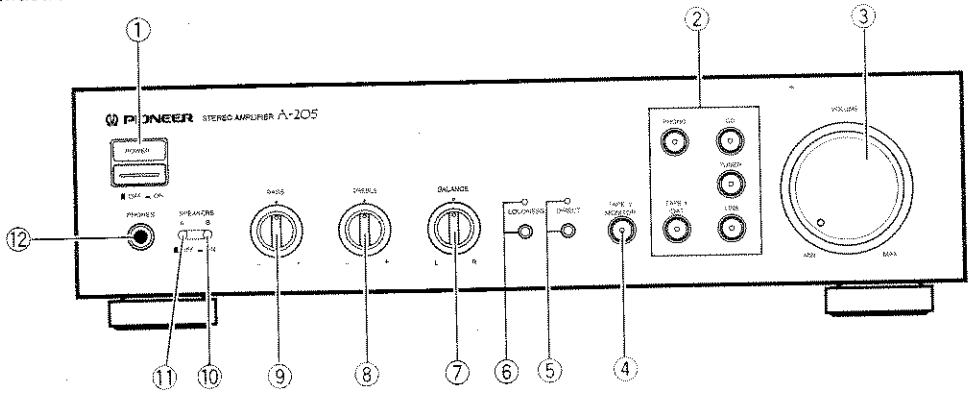
NOTES:

- *When no connections are made to the TAPE 2 MONITOR terminals, or when they are not in use, be sure to set this switch to the OFF position. (No sound will be heard if it is set to the ON position.)*
- *When the TAPE 2 MONITOR indicator is on and the input selector switch is not set to TAPE 1/DAT, the signals which are input through TAPE 2 MONITOR are then output at TAPE 1/DAT REC OUT.*

PANEL FACILITIES

1

The illustration shows model A-205.



Model A-105 is not equipped with ⑩ and ⑪.

FRONT PANEL

See Fig. 1

① POWER switch

Press to turn power to the unit ON and OFF.

② Input Selector switch/indicator

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PHONO : For record playback with a turntable.
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③ VOLUME control

Use to adjust the volume level.

④ TAPE 2 MONITOR switch/indicator

Use when there is an adaptor component (graphic equalizer, etc.) or cassette deck connected to the TAPE 2 MONITOR terminals.

ON : Indicator lights when using the adaptor component or listening to the cassette deck.
OFF : Indicator goes out when not in use.

NOTES:

- *When no connections are made to the TAPE 2 MONITOR terminals, or when they are not in use, be sure to set this switch to the OFF position. (No sound will be heard if it is set to the ON position.)*
- *When the TAPE 2 MONITOR indicator is on and the input selector switch is not set to TAPE 1/DAT, the signals which are input through TAPE 2 MONITOR are then output at TAPE 1/DAT REC OUT.*

⑤ DIRECT switch/indicator
Use this switch when you do not wish to pass the output fron
input terminal equipment through the various frequenc
adjusting circuits (BASS, TREBLE, BALANCE LOUDNESS.)
ON : The indicator lights : The signals input through the inpu
terminals are reprodueed without passing through the variou
frequency adjusting circuits. This results in flat, pure soun
which is a more faithful reproduction of the input source.
OFF: The indicator goes out : The signal passes through th
various frequency adjusting circuits.

⑥ LOUDNESS switch/indicator
Use when listening at low volume levels.
ON : The indicator lights : Boosts low and high frequencies t
give added punch to playback even at low volume levels.
OFF : The indicator goes off : Should normally be left in th
position.
NOTE:
*This control does not operate when the DIRECT switch is in the C
position.*

⑦ BALANCE control
Should normally be left in the center position. Adjust th
balance if the sound is louder from one of the speakers. If th
right side is louder, turn toward the L (left) position and if the le
side is louder, turn toward the R (right) position.
NOTE:
*This control does not operate when the DIRECT switch is in the D
position.*

⑧ TREBLE tone control
Use to adjust the high-frequency tone. The center position is t
flat (normal) position. When turned to the right, high-frequen
tone is emphasized; when turned to the left, high-frequen
tone is de-emphasized.
NOTE:
*This control does not operate when the DIRECT switch is in the
position.*

⑨ BASS tone control
Use to adjust the low-frequency tone. The center position is
flat (normal) position. When turned to the right, low-frequer
tone is emphasized; when turned to the left, low-frequency to
is de-emphasized.
NOTE:
*This control does not operate when the DIRECT switch is in the
position.*

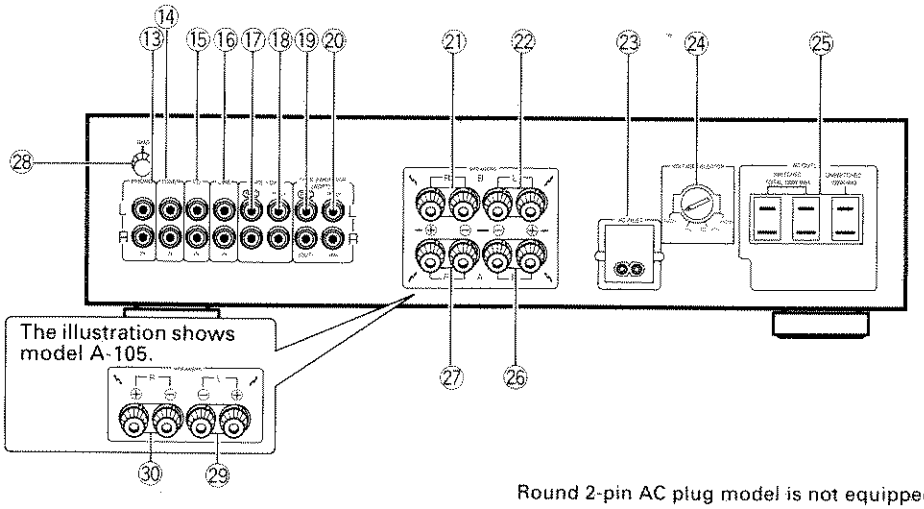
⑩ SPEAKERS B selector switch (A-205 only)
Use this switch to listen to the speaker systems connected to
SPEAKERS B terminals.
ON (▂):
Depressed position : Sound is heard from the speaker syst
OFF (▀):
Released position : No sound is heard from the speaker syst
Set to this position when listening with headphones

⑪ SPEAKERS A selector switch (A-205 only)
Use this switch to listen to the speaker system connected to
SPEAKERS A terminals.
ON (▂):
Depressed position : Sound is heard from the speaker syst
OFF (▀):
Released position : No sound is heard from the speaker sys
Set to this position when listening with headphones.

⑫ PHONES jack
When using headphones, insert the plug into this jack.
With model A-105 the output to the speakers is cut automati
when connecting headphones.

2

The illustration shows A-205 multi voltage model.



Round 2-pin AC plug model is not equipped with ㉔ and

REAR PANEL See Fig.

⑬ PHONO terminals

⑭ TUNER terminals

⑮ CD terminals

⑯ LINE terminals

⑰ TAPE 1/DAT REC terminals

⑱ TAPE 1/DAT PLAY terminals

⑲ TAPE 2/MONITOR (ADPT) REC (OUT) terminals

⑳ TAPE 2/MONITOR (ADPT) PLAY (IN) terminals

㉑ SPEAKERS B terminals (right channel) (A-205 on

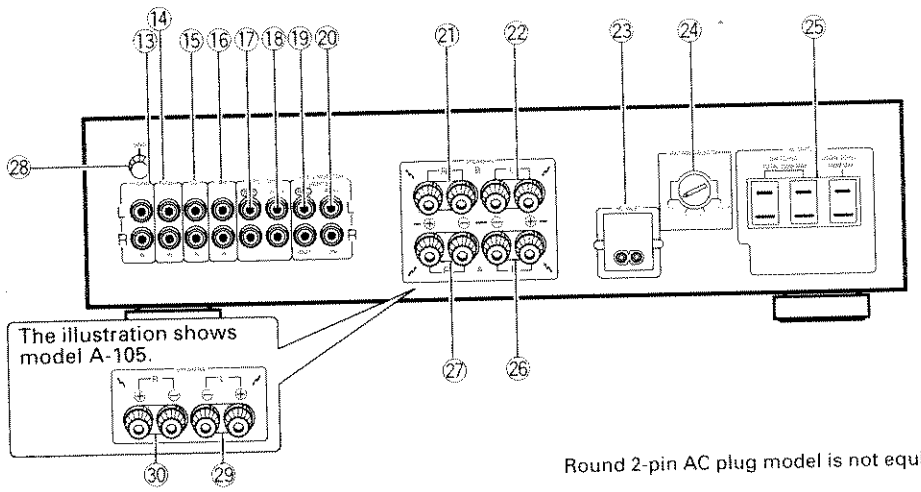
㉒ SPEAKERS B terminals (left channel) (A-205 on

㉓ AC INLET jack

Connect power cord to here and an AC wall socket, or the
outlet of an audio timer.
If you are going to be away from home for a long period of ti
disconnect the unit from the wall socket.

㉔ VOLTAGE SELECTOR (See page 2)

2 The illustration shows A-205 multi voltage model.



Round 2-pin AC plug model is not equipped with ㉔ and ㉕

㉕ AC OUTLET

SWITCHED TOTAL 100 W MAX

Power supplied through these outlets is turned on and off by t amplifier's POWER switch. Total electrical power consumpti of the connected equipment should not exceed 100 W.
The equipment should be disconnected by removing the ma plug from the wall socket when not in regular use, e.g., when vacation.

UNSWITCHED 100 W MAX

Power flows continually to this outlet, regardless of whether t amplifier's POWER switch is ON or OFF. Electrical pow consumption of the connected equipment should not exce 100 W.
The equipment should be disconnected by removing the ma plug from the wall socket when not in regular use, e.g., when vacation.

CAUTION:
DO NOT CONNECT MONITOR OR TV SET.

NOTE:
Do not connect appliances with high power consumption such heaters, irons, or television sets to the AC OUTLET in order to av overheating or fire risk.
This can cause the amplifier to malfunction.

㉖ SPEAKERS A terminals (left channel) (A-205 on

㉗ SPEAKERS A terminals (right channel) (A-205 on

㉘ GND (Turntable ground) terminal

㉙ SPEAKERS terminals (left channel) (A-105 only

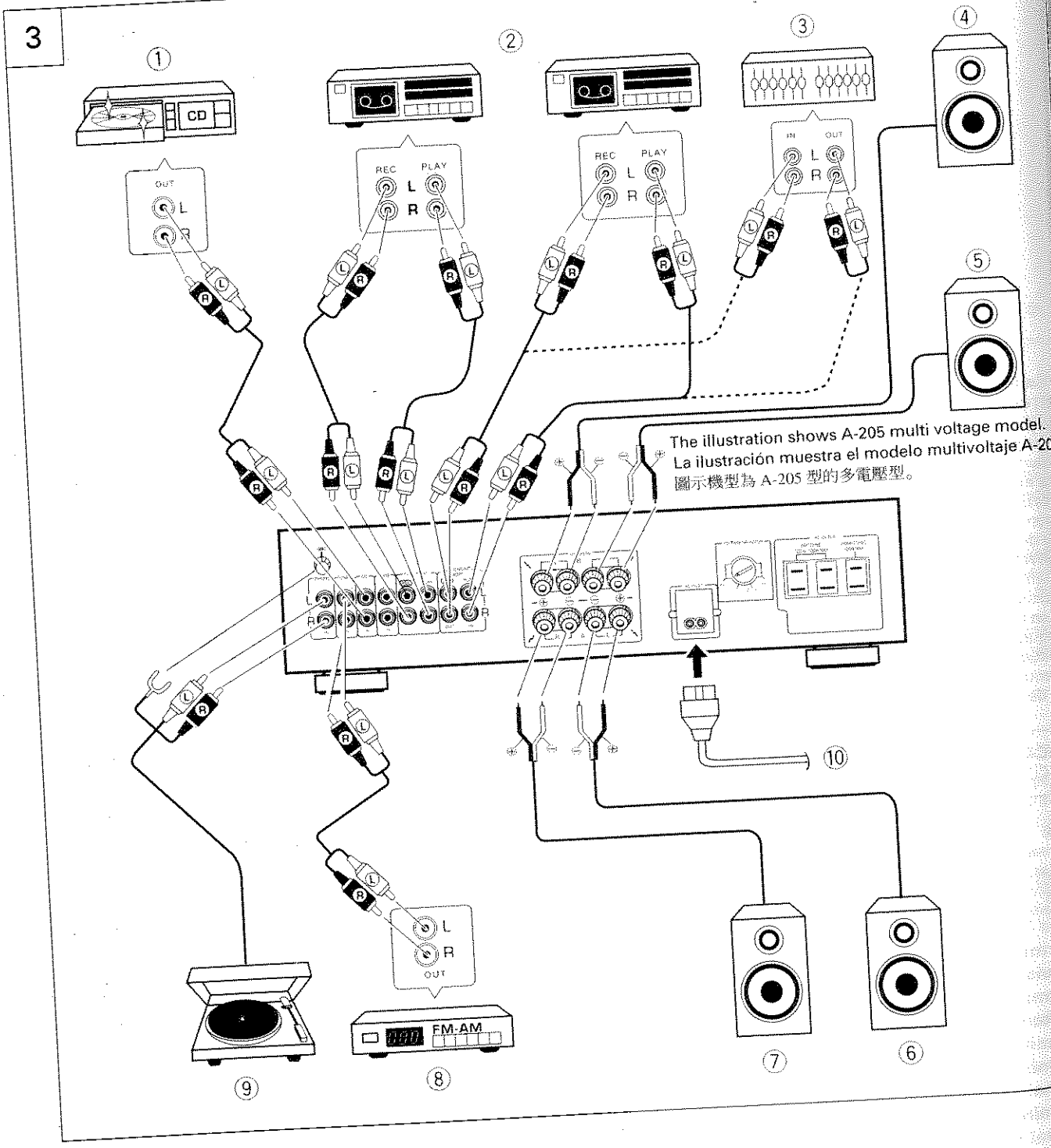
㉚ SPEAKERS terminals (right channel) (A-105 on

CONNECTIONS See Fig. 3

CONEXIONES Ver Fig. 3

連接方法 參看圖 3

3



CONNECTION

Before making or changing the connections, switch off the power switch and disconnect the power cord from the AC outlet.

① CD player
② DAT/Cassette decks
③ Adaptor component (graphic equalizer)
④ Speaker system B (R) (A-205 only)
⑤ Speaker system B (L) (A-205 only)
⑥ Speaker system A (L)
⑦ Speaker system A (R)
⑧ Tuner
⑨ Turntable
⑩ To an AC wall socket.

連接方法

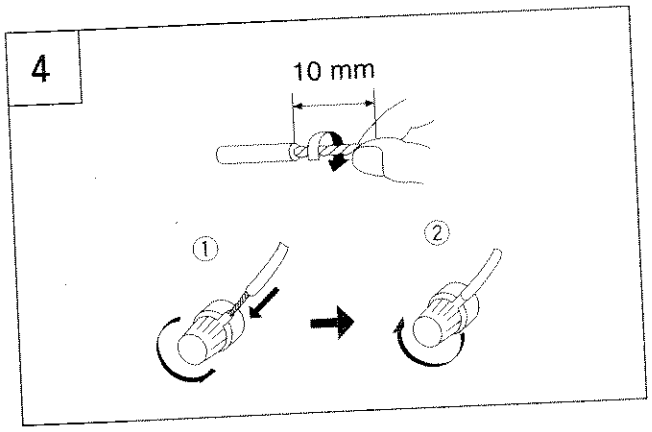
在改變連接之前，關閉電源開關並從交流電源插座上拔下電源線。

① 鐳射唱碟播放機
② 數字音頻錄音機／卡式錄音機
③ 附加裝置（圖示均衡器）
④ 揚聲器系統 B（右）（僅指 A-205）
⑤ 揚聲器系統 B（左）（僅指 A-205）
⑥ 揚聲器系統 A（左）
⑦ 揚聲器系統 A（右）
⑧ 調諧器
⑨ 唱機
⑩ 接至家用交流電源插座

CONEXIONES

Antes de hacer o cambiar las conexiones, desconecte el interruptor de la alimentación y desenchufe el cable de la alimentación del tomarriente de CA.

① Reproductor de CD
② Magnetófono audiodigital/magnetófonos
③ Componente adaptador (ecualizador gráfico)
④ Sistema de altavoces B (Derecho) (A-205 sólo)
⑤ Sistema de altavoces B (Izquierdo) (A-205 sólo)
⑦ Sistema de altavoces A (Izquierdo)
⑥ Sistema de altavoces A (Derecho)
⑧ Sintonizador
⑨ Giradiscos
⑩ A la toma de CA de la pared



CONNECTING THE SPEAKER CORDS

See Fig. 4

1. **Strip off the vinyl covering and twist the tip of the wire core.**
2. **Loosen the knob and insert the wire core into the terminal hole.**
3. **Tighten the knob to fix the wire core in place.**

NOTE:
Do not allow any of the cord conductors to protrude from th terminals or touch any other conductors. Malfunctioning breakdowns may occur when conductors come into contact wi each other.

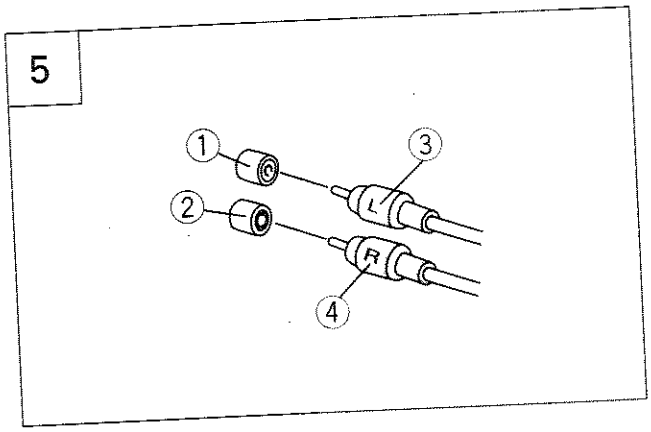
Speaker Impedance

[Model A-205]

- When speaker systems are connected to only SPEAKERS A SPEAKERS B terminals, such speakers should have rat impedance in the range of 4 — 16 Ω.
- When speakers are connected to both the A and B termina they should have a rated impedance in the range of 8 — 32

[Model A-105]

- The speaker systems used should have a rated impedance the range of 6 — 16 Ω.



CONNECTING THE INPUT/OUTPUT CORDS

See Fig. 5

① Left channel
② Right channel
③ White plug
④ Red plug

Connect the white plug ③ to the L (left) channel ①, and the plug ④ to the R (right) channel ②. Be sure to insert the p securely.
The INPUT/OUTPUT jacks of this unit are tinplated for audio quality.

OPERATIONS

BEFORE BEGINNING OPERATIONS

Set the controls and switches as follows :

1. **Set the POWER switch to ON.**
2. **Press the SPEAKERS A selector switch, SPEAKERS B selector switch, or both switches. (A-205 only)**
3. **Set the BALANCE control to the center position.**
4. **Set the DIRECT switch to OFF.**
5. **Set the TAPE 2 MONITOR switch to OFF.**

PLAYBACK PROCEDURES

1. **Set the Input Selector switch to the desired playback source.**
   - For playback of a record : Set to [PHONO].
   - For playback of a compact disc : Set to [CD].
   - For reception of an AM/FM broadcast : Set to [TUNER].
   - For playback of a component connected to the LINE terminals: Set to [LINE].
   - For playback of a tape : Set to [TAPE 1/DAT].
2. **Operate the equipment to begin playback.**
3. **Adjust playback volume with the VOLUME contro on this unit.**

RECORDING TAPES

1. **Select the recording equipment with the Inpu Selector switch.**
2. **Begin recording by operating the recording equi ment and cassette deck.**
   - Refer to the operating instructions for your cassette de for proper operating procedures.

COPYING TAPES

When two decks are used, you can record the sounds from o deck onto the other.

Application examples:

- To make a tape copy with contents identical to the origi tape.
- To edit a recording of an FM broadcast in order to cut unwanted commercials, recording only desired material o another tape.

1. **Load tapes for playback (pre-recorded tape) and recording (blank tape) into the respective cassette decks.**
2. **Select the copying direction with the Input Selector switch and TAPE 2 MONITOR switch.**
   - When copying from the cassette deck of TAPE 1/DAT terminals to the cassette deck of the TAPE 2 MONITOR terminals: Set the Input Selector switch to TAPE 1/DAT.
   - When copying from the cassette deck of the TAPE 2 MONITOR terminals to the cassette deck of TAPE 1/DAT terminals: Set the TAPE 2 MONITOR switch to ON and the Input Selector to a position other then TAPE 1/DAT.
3. **Operate the cassette decks to begin copying.**

Set the cassette deck with the original (playback) tape to the playback mode, and set the cassette deck with the blank tape to the recording mode.

TO USE THE COMPONENT CONNECTED TO THE TAPE 2 MONITOR (ADPT) TERMINALS:

[For an adaptor component]

By connecting a graphic equalizer, source sounds (from records tapes, AM/FM broadcasts, etc.) can be heard with added sound and tone compensation.
Sounds compensated via the adaptor component can be recorded (TAPE 1 REC).

1. **Set the TAPE 2 MONITOR switch to ON.**
2. **Play back the source.**
3. **Operate the adaptor component.**

[For a cassette deck]

A cassette deck connected here can be operated in the same way (recording and playback) as a deck connected to the TAPE 1/DAT terminals.
Also, if two decks are used, you can copy tapes from one deck onto the other (see the section "Copying Tapes")

1. **Set the TAPE 2 MONITOR switch to ON.**
2. **Operate the cassette deck to perform playback (or recording).**

NOTE:

The source selected with the Input Selector is backed up for a few days even when the Power switch is set to off or the power cord is unplugged.
After this period, the TAPE 1/DAT is automatically selected when the power is supplied.

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this componen check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electric appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEE authorized service center or your dealer to carry out repair work.

Symptom	Cause	Remedy
No power supplied to unit.	• Power plug is disconnected from outlet. • The component power plug has been plugged into another component power outlet (e.g. timer, etc.) but power to that unit is disconnected.	• Insert plug securely into outlet. • Turn on power to other component.
No sound.	• Connecting cords are disconnected from terminals, or connected incorrectly. • Terminals, or connecting cords pin plugs are dirty. • The TAPE 2 MONITOR switch is set to ON (except when using an adaptor component). • Operation of other components is incorrect. • Both SPEAKERS selector switches are set to "OFF". (A-205 only) • The position of the Input Selector does not match the component to be played back.	• Connect securely. • Clean terminals and plugs. • Set switch to OFF. • Consult the operating instructions for the othe components. • Set one switch or both switches to "ON". • Set the switch correctly (CD, PHONO, TUNER TAPE 1/DAT).
No sound from one speaker.	• Connecting cords or speaker cords are disconnected on that side. • BALANCE control is set to one side.	• Connect securely. • Set BALANCE control to center position.
Cannot record tapes.	• Connections are incorrect. • Operation of cassette deck is incorrect. • The TAPE 2 MONITOR switch is set to ON.	• Reconnect properly. • Consult the operating instructions for the cassette deck. • Set the TAPE 2 MONITOR switch to OFF.
Cannot perform tape copying.	• The positions of the Input Selector switch and TAPE 2 MONITOR switch are incorrect (when using 2 cassette decks). • Operation of cassette decks is incorrect.	• Set switches correctly (See section COPYIN TAPES). • Consult the operating instructions for th cassette decks.

Abnormal functioning of this unit may be caused by static electricity or other exeternal interference. To restore normal operation, turn the power and then on again, or unplug the AC power cord and then plug it in again.

SPECIFICATIONS

[A-205]

Amplifier Section

Continuous power output
(both channels driven at 20 Hz to 20 kHz)**
T.H.D. 0.07 %, 8 Ω ..... 35 W + 35 W*
T.H.D. 0.1 %, 4 Ω ..... 40 W + 40 W*
DIN Continuous Power Output (both channels driven at 1 kHz)
T.H.D. 1.0 %, 8 Ω ..... 45 W + 45 W
T.H.D. 1.0 %, 4 Ω ..... 55 W + 55 W
Dynamic power output (E.I.A test signal)
4 Ω ..... 66 W
Total harmonic distortion**
20 Hz to 20 kHz, 17.5 W, 8 Ω ..... 0.05 %*

• *Note for round 2-pin plug model:*
Above specifications are for when power supply is 230 V.

Input sensitivity/impedance
PHONO (MM) ..... 2.8 mV/50 kΩ
CD, TUNER, LINE, TAPE 1/DAT, TAPE 2 MONITOR 200 mV/50 kΩ
PHONO overload level
1 kHz, T.H.D. 0.1 % (MM) ..... 150 mV
Output level/impedance
TAPE REC, ADPT OUT ..... 200 mV/1 kΩ
Frequency response
PHONO (MM) ..... 20 Hz to 20 kHz ±0.5 dB
CD, TUNER, LINE, TAPE 1/DAT, TAPE 2 MONITOR
..... 5 Hz to 100 kHz $^{0}_{-3}$ dB*
Tone control
BASS ..... ± 8 dB (100 Hz)
TREBLE ..... ± 8 dB (10 kHz)
Loudness contour (volume control set at –30 dB position)
..... +5 dB (100 Hz)/+3 dB (10 kHz)
Signal-to-Noise ratio (IHF short circuit, A network)
PHONO (MM, 5 mV input) ..... 82 dB*
CD, TUNER, LINE, TAPE 1/DAT, TAPE 2 MONITOR ..... 105 dB*

Power Supply/Miscellaneous

Power requirements
Multi voltage model (Flat blade 2-pin AC plug model)
..... AC 110 V/120-127V/220 V/240 V (switchable), 50/60 Hz
Round 2-pin AC plug model ..... AC 220-230 V, 50/60 Hz
Power consumption ..... 330 W
AC outlets (Multi voltage model only)
Switched (x 2) ..... 100 W
Unswitched (x 1) ..... 100 W
Dimensions (including knobs and other protruding parts)
..... 420 (W) x 312 (D) x 110 (H) mm
Weight (without package) ..... 5.2 kg

Accessories

Operating instructions 1
Power cord 1

NOTE:
Specifications and design subject to possible modification without notice, due to improvements.

* Measured with the DIRECT switch set to ON.
**Measured by Audio Spectrum Analyzer.

[A-105]

Amplifier Section

Continuous power output
(both channels driven at 20 Hz to 20 kHz)**
T.H.D. 0.1 %, 8 Ω ..... 25 W + 25 W*
DIN Continuous Power Output (both channels driven at 1 kHz)
T.H.D. 1.0 %, 8 Ω ..... 30 W + 30 W
Total harmonic distortion**
20 Hz to 20 kHz, 12.5 W, 8 Ω ..... 0.05 %*

• *Note for round 2-pin plug model:*
Above specifications are for when power supply is 230 V.

Input sensitivity/impedance
PHONO (MM) ..... 2.8 mV/50 kΩ
CD, TUNER, LINE, TAPE 1/DAT, TAPE 2 MONITOR ..... 200 mV/50 kΩ
PHONO overload level
1 kHz, T.H.D. 0.1 % (MM) ..... 150 mV
Output level/impedance
TAPE REC, ADPT OUT ..... 200 mV/1 kΩ
Frequency response
PHONO (MM) ..... 20 Hz to 20 kHz ±0.5 dB
CD, TUNER, LINE, TAPE 1/DAT, TAPE 2 MONITOR
..... 5 Hz to 100 kHz $^{0}_{-3}$ dB*
Tone control
BASS ..... ± 8 dB (100 Hz)
TREBLE ..... ± 8 dB (10 kHz)
Loudness contour (volume control set at –30 dB position)
..... +5 dB (100 Hz)/+3 dB (10 kHz)
Signal-to-Noise ratio (IHF short circuit, A network)
PHONO (MM, 5 mV input) ..... 82 dB*
CD, TUNER, LINE, TAPE 1/DAT, TAPE 2 MONITOR ..... 105 dB*

Power Supply/Miscellaneous

Power requirements
Multi voltage model (Flat blade 2-pin AC plug model)
..... AC 110 V/120-127V/220 V/240 V (switchable), 50/60 Hz
Round 2-pin AC plug model ..... AC 220-230 V, 50/60 Hz
Power consumption ..... 210 W
AC outlets (Multi voltage model only)
Switched (x 2) ..... 100 W
Unswitched (x 1) ..... 100 W
Dimensions (including knobs and other protruding parts)
..... 420 (W) x 312 (D) x 110 (H) mm
Weight (without package) ..... 4.2 kg

Accessories

Operating instructions 1
Power cord 1

NOTE:
Specifications and design subject to possible modification without notice, due to improvements.

* Measured with the DIRECT switch set to ON.
**Measured by Audio Spectrum Analyzer.

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ESPECIFICACIONES

[A-205]

Sección del amplificador

Potencia de salida continua
(ambos canales activados de 20 Hz a 20 kHz)**
D.A.T. 0,07 %, 8 Ω ..... 35 W + 35 W*
D.A.T. 0,1 %, 4 Ω ..... 40 W + 40 W*
Potencia continua de salida DIN (ambos canales activados a 1 kHz)
D.A.T. 1,0 %, 8 Ω ..... 45 W + 45 W
D.A.T. 1,0 %, 4 Ω ..... 55 W + 55 W
Potencia de salida dinámica (en señal de prueba dinámica EIA)
4 Ω ..... 66 W
Distorsión armónica total**
20 Hz a 20 kHz, 17,5 W, 8 Ω ..... 0,05 %*

- *Nota para el modelo con enchufe de CA de 2 contactos redondos: Las especificaciones arriba se aplican cuando la alimentación es 230 V.*

Sensibilidad de entrada/impedancia
PHONO (MM) ..... 2,8 mV/50 kΩ
CD, TUNER, LINE, TAPE 1/DAT, TAPE 2 MONITOR ..... 200 mV/50 kΩ
Nivel de sobrecarga PHONO
1 kHz D.A.T. 0,1 % (MM) ..... 150 mV
Nivel de salida/impedancia
TAPE REC, ADPT OUT ..... 200 mV/1 kΩ
Repuesta de frecuencia
PHONO (MM) ..... 20 Hz a 20 kHz ±0,5 dB
CD, TUNER, LINE, TAPE 1/DAT, TAPE 2 MONITOR ..... 5 Hz a 100 kHz $^{+0}_{-3}$ dB*
Control de tono
BASS ..... ± 8 dB (100 Hz)
TREBLE ..... ± 8 dB (10 kHz)
Curva de sonoridad (control de volumen en la posición –30 dB) ..... +5 dB (100 Hz)/+3 dB (10 kHz)
Relación señal a ruido (cortocircuito IHF, red A)
PHONO (MM, entrada de 5 mV) ..... 82 dB*
CD, TUNER, LINE, TAPE 1/DAT, TAPE 2 MONITOR .. 105 dB*

Alimentación/varios

Alimentación
Modelo de multivoltaje (Modelo con enchufe de CA de 2 contactos planos) ..... CA 110 V/120-127V/220 V/240 V (conmutable), 50/60 Hz
Modelo con enchufe de CA de 2 contactos redondos ..... CA 220-230 V, 50/60 Hz
Consumo ..... 330 W
Toma de CA (solamente modelo de multivoltaje)
SWITCHED (x 2) ..... 100 W
UNSWITCHED (x 1) ..... 100 W
Dimensiones (inclusive controles y partes sobresalientes) ..... 420 (Ancho) x 312 (Fondo) x 110 (Alto) mm
Peso (sin embalaje) ..... 5,2 kg

Accesorios

Manual de instrucciones 1
Cable de la alimentación 1

NOTA:
Las especificaciones y diseño están sujetos a cambios sin previo aviso con motivo de mejoras.

*Mida estando desconectado el conmutador DIRECT.
**Medidos mediante analizador de espectro de audio.

[A-105]

Sección del amplificador

Potencia de salida continua
(ambos canales activados de 20 Hz a 20 kHz)**
D.A.T. 0,1 %, 8 Ω ..... 25 W + 25
Potencia continua de salida DIN (ambos canales activad
1 kHz)
D.A.T. 1,0 %, 8 Ω ..... 30 W + 3
Distorción armónica total**
20 Hz a 20 kHz, 12,5 W, 8Ω 0,0

- *Nota para el modelo con enchufe de CA de 2 contactos redon Las especificaciones arriba se aplican cuando la alimentaci 230 V.*

Sensibilidad de entrada/impedancia
PHONO (MM) 2,8 mV/5
CD, TUNER, LINE, TAPE 1/DAT, TAPE 2 MONITOR 200 mV/5
Nivel de sobrecarga PHONO
1 kHz D.A.T. 0,1 % (MM) 150
Nivel de salida/impedancia
TAPE REC, ADPT OUT ..... 200 mV/
Repuesta de frecuencia
PHONO (MM) ..... 20 Hz a 20 kHz ±0,
CD, TUNER, LINE, TAPE 1/DAT, TAPE 2 MONITOR ..... 5 Hz a 100 kHz $^{+0}_{-3}$
Control de tono
BASS ..... ± 8 dB (10
TREBLE ..... ± 8 dB (10
Curva de sonoridad (control de volumen en la posición –3
..... +5 dB (100 Hz)/+3 dB (10
Relación señal a ruido (cortocircuito IHF, red A)
PHONO (MM, entrada de 5 mV) 82
CD, TUNER, LINE, TAPE 1/DAT, TAPE 2 MONITOR .. 105

Alimentación/varios

Alimentación
Modelo de multivoltaje (Modelo con enchufe de CA de 2 cont planos)
..... CA 110 V/120-127V/220 V/240 V (conmutable), 50/
Modelo con enchufe de CA de 2 contactos redondos
..... CA 220-230 V, 50/
Consumo 2
Toma de CA (solamente modelo de multivoltaje)
SWITCHED (x 2) 1
UNSWITCHED (x 1) 1
Dimensiones (inclusive controles y partes sobresalientes
..... 420 (Ancho) x 312 (Fondo) x 110 (Alto
Peso (sin embalaje) 4

Accesorios

Manual de instrucciones .....
Cable de la alimentación .....

NOTA:
Las especificaciones y diseño están sujetos a cambios sin aviso con motivo de mejoras.

*Mida estando desconectado el conmutador DIRECT.
**Medidos mediante analizador de espectro de audio.

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